

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 173 (FORT SMALLWOOD RD) AND APPIAN WAY IN ANNE ARUNDEL COUNTY. THE MODIFICATION WILL REPLACE THE EXISTING PEDESTRIAN SIGNALS WITH APS/CPS. MD 173 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA FIVE (5) PHASE FULLY-ACTUATED MODE. NORTHBOUND AND SOUTHBOUND APPROACHES OF MD 173 OPERATE CONCURRENTLY WITH A EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR NORTHBOUND MD 173 LEFT TURN MOVEMENT. BOTH EASTBOUND AND WESTBOUND APPROACHES OF APPIAN WAY OPERATE CONCURRENTLY. AN ALTERNATIVE ACTUATED PEDESTRIAN PHASE WITH AUDIBLE PEDESTRIAN SIGNALS ACROSS THE NORTHERN LEG OF MD 173 WILL BE PROVIDED.

III. SPECIAL NOTES

APS WILL FUNCTION AS FOLLOWS:
TO CROSS MD 173 (FORT SMALLWOOD RD)

- WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE THE FOLLOWING MESSAGE: "WAIT TO CROSS FORT SMALLWOOD AT APPIAN. WAIT."
- WHEN THE WALK PHASE BEGINS, THE PUSHBUTTON UNIT WILL PROVIDE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTACTS

DISTRICT (DISTRICT 5)

MR. LEE STARKLOFF
DISTRICT ENGINEER
410-841-1001

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-841-1003

MR. MIKE HUBER
DISTRICT UTILITY ENGINEER
410-841-1039

MR. JAMES FOLDEN
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-841-1031

MR. JOSEPH GECKLE
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-841-1013

OFFICE OF TRAFFIC AND SAFETY

MS. CORREN JOHNSON
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS SECTION
410-787-7670

MR. MICHAEL STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7696

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

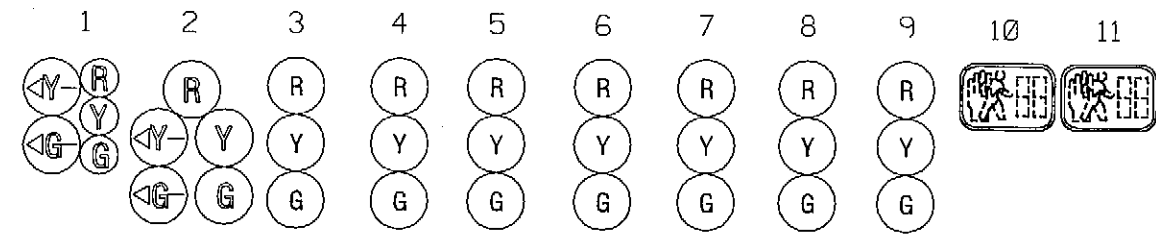
ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9571	2	SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN 2 EA R10-3(1) "PUSH BUTTON TO CROSS 'FORT SMALLWOOD'" (9"x15")

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
1001	1	EA	MAINTENANCE OF TRAFFIC
2001	4	CY	CLASS 2 EXCAVATION
2002	1	CY	TEST PIT EXCAVATION
5001	390	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5004	390	LF	12 IN. WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	120	LF	STANDARD TYPE 'A' COMBINATION CURB AND GUTTER 12 IN. GUTTER PAN 8 IN. DEPTH
6002	580	SF	5 IN. CONCRETE SIDEWALK
6003	55	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
8008	2	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8009	2	EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8018	2	EA	LED 16 IN. COUNTDOWN PEDESTRIAN SIGNAL HEAD
8027	1	EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8043	30	LF	UP TO 4 IN. SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8045	2	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8047	40	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8058	370	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8060	380	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
NEG	20	SY	PLACING FURNISHED TOPSOIL 4 IN. DEPTH
NEG	20	SY	TURFGRASS ESTABLISHMENT

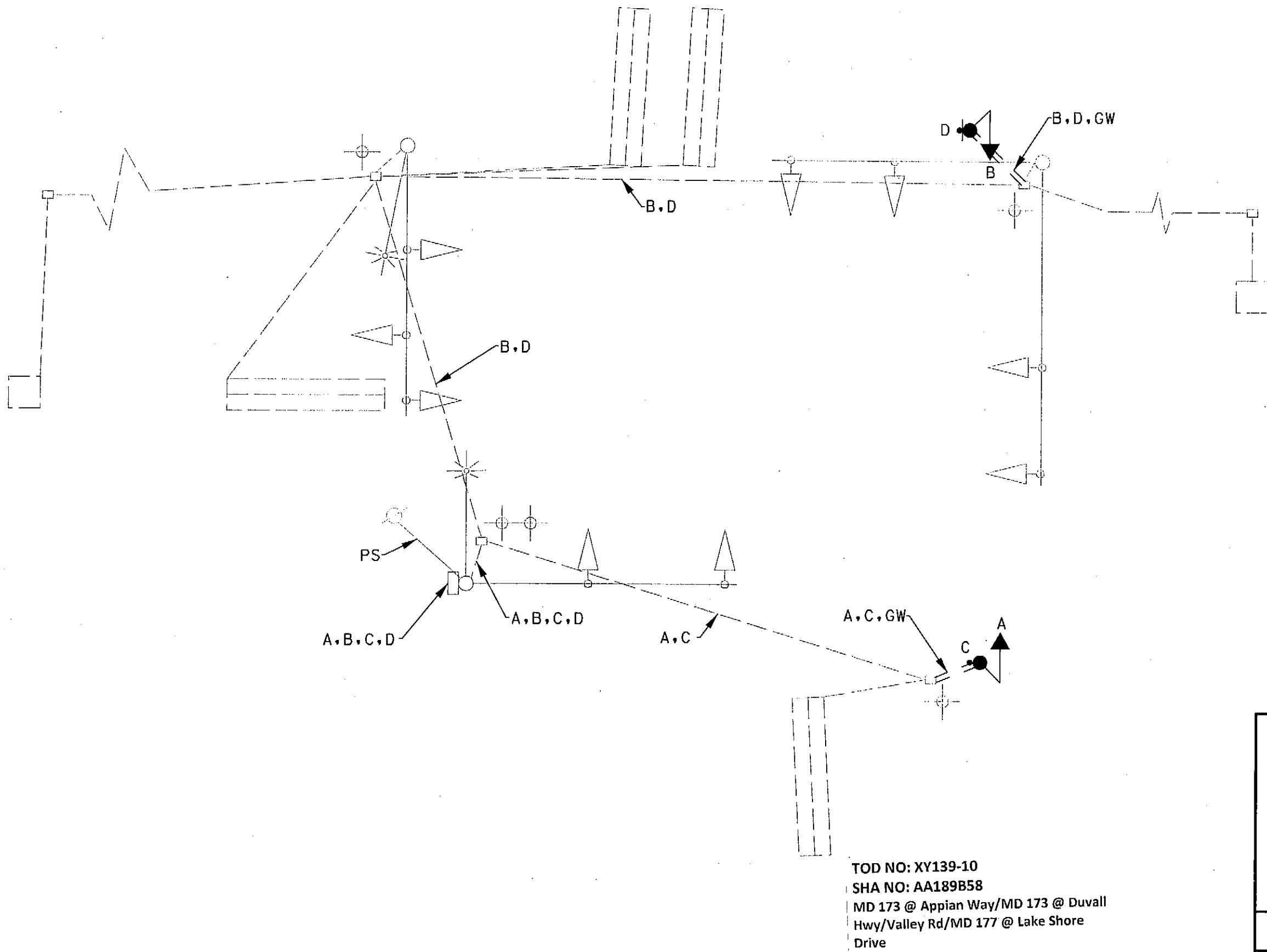
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

PHASE CHART



Phase 1 & 6	◁G-G	◁G-G	G	R	R	R	R	R	R	R	DW	DW	
1 Change	◁Y-G	◁Y-G	G	R	R	R	R	R	R	R	DW	DW	
Phase 2 & 6	G	G	G	G	G	R	R	R	R	R	DW	DW	
2 & 6 Change	Y	Y	Y	Y	Y	R	R	R	R	R	DW	DW	
Phase 4 & 8	R	R	R	R	R	G	G	G	G	G	DW	DW	
4 & 8 Change	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	
Phase 4 & 8 Alt.	R	R	R	R	R	G	G	G	G	G	WK	WK	
Ped Clearance.	R	R	R	R	R	G	G	G	G	G	FL/DW	FL/DW	
4 & 8 Alt. Change	R	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	

WIRING DIAGRAM



WIRING KEY

- A.B - 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- C.D - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
- PS - EXISTING POWER CABLE
- GW - 1 CONDUCTOR STRANDED COPPER GROUND WIRE (NO. 6 AWG)
- GR - EXISTING GROUND ROD

TOD NO: XY139-10
SHA NO: AA189B58
MD 173 @ Appian Way/MD 173 @ Duval
Hwy/Valley Rd/MD 177 @ Lake Shore
Drive

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SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 173 (FORT SMALLWOOD RD) at APPIAN WAY

RIVIERA BEACH, MD

GENERAL INFORMATION SHEET

SCALE	N.T.S.	DATE	MAY 1, 2013	CONTRACT NO.	XY139B185
DESIGNED BY	MAW	COUNTY	ANNE ARUNDEL		
DRAWN BY	MAW	LOGMILE	02017304.65		
CHECKED BY	KMP	TIMS NO.	L658		
F.A.P. NO.		TOD NO.			
TS NO. 2217B-GI	DRAWING	SG-02	OF 02	SHEET NO.	02 OF 06